

WATER PROTECTION BUREAU

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of

Agency Use

Permit No.: 18

MT0030694

Date Rec'd W9/09

Amount Rec'd 6

Check No.

Rec'd By ho

FORM NMP

Nutrient Management Plan

the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp
Section A - NMP Status (Check one):
New No prior NMP submitted for this site.
Modification Change or update to existing NMP.
Permit Number: MTop 30699 (Specify the permit number that was previously assigned to your facility.)
Section B - Facility or Site Information:
Site Name Tutuedt Farms
Site Location 1363 church Dr
Nearest City or Town Kalispell County Flathead
Section C - Applicant (Owner/Operator) Information:
Owner or Operator Name Bruce Tut ved1
Mailing Address 2335 W Valley M
City, State, and Zip Code Kalispell Mt 5990
Phone Number (406) 25) 9732



1. Livestock Statistics				
	Animal Type		# of Days on Si	A CONTRACT OF THE PROPERTY OF
			(per year)	Production (cubic yds or ga
1.	0 500		120	<u> </u>
2.	Medicagli consistent gregoti di immerci i konstrumo e consistente e si sustanti della colori di immerci i konst	ika dia menjeka, kana mengengan dia manggaran kendapan pengenjan pelanda menjebahan pengengan pengengan pengen		
			adal at La Principal de Company de Company de La Company de Company de Company de Company de Company de Company	
	and the control of th			
	Manager of the second s	and the last and the second	AND RECOVER C ACCRECATION AND AND AND AND AND AND AND AND AND AN	
	annoteka akkunga kerke ang kang kang kang kang ang manang matakan dan kang ang matakan dan sabang.		CCALCOR CHARCON CONTROL	Own resident to the continuence can be determined and the color of the continuence of the continuence of the color of the
	ni da militara in su industria di anchi da manga anti da manga da manga da manga da manga da manga da manga da	and productive statement of the control of C	and the second commencer should be a commencer of the second commencer of the	CONTROL OF THE PROPERTY OF THE
ethod used for estimatin	g annual manure pro	oduction:		A MANAGEMENT CONTROL OF THE CONTROL OF T
Fred =	founds gai	in = manul	e dry wo	ight
-	X.			7777
Manure Handling				
	at the facility:			
escribe manure handling		in SPAINA	and Eall	
escribe manure handling		in spring	and fall	
escribe manure handling		in spring	and fall	
escribe manure handling		in spring	and fall	
escribe manure handling Haul to	r fields i	V	and fall	
escribe manure handling Haul to	oval from confinem	nent areas:	and fall	
escribe manure handling Haul to	oval from confinem	nent areas:		
equency of Manure Rem	oval from confinem	nent areas:		
escribe manure handling Haul to	oval from confinem	nent areas:		
escribe manure handling Haul to	oval from confinem	nent areas:		
escribe manure handling Haul to	oval from confinem	nent areas:		
escribe manure handling Haul to	oval from confinem	nent areas:	No	
escribe manure handling Haul to equency of Manure Rem Year this manure temporarily so then how and where?	oval from confinem	nent areas: on? Yes	No	
escribe manure handling Haul to equency of Manure Rem Year this manure temporarily so then how and where? manure stored on imperv	oval from confinem	nent areas: on? Yes Yes No	No	
escribe manure handling Haul to equency of Manure Rem Year this manure temporarily so then how and where?	oval from confinements stored in any location ious surface? Y aracteristics of this	nent areas: on? Yes Yes No	No	

3. Waste Control Structures			Unique conservation les les que par	75-71-11-11-12-12-12-12-12-12-12-12-12-12-12	
Waste Control Structure (name/type)	Length (ft)	Width (ft)	Depth (ft)	Volume (cubic ft or galle	ns)
1. MA			,	•	•.
2.				and the second s	
3.					TO MENTAL PROPERTY.
4.		A PRODUCTION OF THE PRODUCTION			
5.					
6.	,				·
7.					
8.					
9.					************
10.		`			
11.					
12.		Name Committee (State Company) and Company and Company (State Committee Company) and Company (State Committee Commit	V market nin des l'assissasses en annulla monque de ,		the angles of contract on the
ZEASTHULDOCROCKERS (DANOCROCK MERCHET ELEVERANCE ANNOUND HIS STATEMENT ANNOUND THE STATEMENT ANNOUND THE STATEMENT ANNOUND THE STATEMENT AND THE STATEMENT A		***************************************	**************************************		20 KARING PER
Dig Hole					

5. Clean Water Diversion Practices Describe how clean water is diverted fro	om production	area:			
				·	
				-	
	,				_
	-				
		-			
		`			-

escribe how	1	i ka	a to	1 2	e 11	. t. '		1/22.2	*
a		116	3112	13	7611	contai			
Os.	UN	5118	1132	Teing	pond.				
				***************************************		V 1			
		<u> </u>	-						
-				-					
		•							
Chemicals scribe how				* :	• 11.3	-			•
SCITUE HOY	√ chenn				s are handled		1	•	
	Nex	Stor	red 1	n a	lock ed	e tra	iler		
					· ·				
				-					

							-		
scribe in d	etail all	temporar	ry, perman	ent and	structural Be	est Manageme	ent Practic	es (BMPs) v	which will be a
scribe in d control run ledule for i lited to: con ters, down face area;	etail all aff of p implements in the struction is spouts a repairin	temporant collutants entation of ng ditche and burie ig or adju	ry, perman from facil of each of es, terraces ed conduits esting wate	nent and lity's pr these most and was to dive	coduction are easures. Examaterways about art roof drainants to minimize	ea. Indicate the supples of BMI we an open longe; providing to water wast.	ne location P measures t to divert p more roo	of these me could inclu clean water fed area: dec	which will be used as a sures. Included but are not run on; install creasing open to ounts of water
scribe in d control run nedule for i nited to: con ters, down face area; cooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate
scribe in decontrol run ledule for inited to: conters, down face area; cooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install
scribe in decontrol run ledule for inited to: conters, down face area; cooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate
scribe in d control run nedule for i nited to: con ters, down face area; cooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate
escribe in decontrol run nedule for inited to: control tters, down face area; recooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate
escribe in decontrol run nedule for inited to: control tters, down face area; recooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate
escribe in d control run nedule for i nited to: con tters, down face area; i cooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate
escribe in decontrol run hedule for inited to: control tters, down rface area; in cooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate
hedule for inted to: control run hedule for inted to: control tters, down rface area; in cooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate
escribe in d control run hedule for i nited to: con tters, down rface area; i cooling pu	etail all off of p implemenstructi ispouts a repairin urposes;	temporar pollutants entation of ng ditche and burie ng or adju recyclin	ry, perman from facil of each of es, terraces ed conduits esting wate g water if	nent and lity's pr these me s, and was to dive er systen practica	easures. Examaterways about roof draining to minimize and applica	ea. Indicate the mples of BMI we an open longe; providing water wastable.	ne location P measures t to divert g more roo age; using	of these me could inclu clean water fed area; dec practical am	asures. Includ de but are not run on; install creasing open ounts of wate

ronomic rate:	-	back	Fro	:M	Ser face	water	٠ ،	eanaly	· nak	
cifte	r fre	it out	.8	Let	Surface manure	dry	befor	r app	elyin	 J
								4		
				·						
								THE STATE OF THE S		
										-
	·									
						-				-
permittee is	s required to	o develop gi	uidanc	e address	Record Keeping sing implement c	of NMP pro		ation and	d mainte	enan
permittee is ne facility, as a guidance aify the docu	s required to nd record k document l iment addre	to develop grade developed to developed the developed to developed the following the following developed to developed the following developed the following developed the following developed the following developed the develope	uidance escribe ped for lowing	e addressed in Part	sing implement of the permit.	of NMP pro		ation and	d mainte	enar
permittee is he facility, a	s required to nd record k document l ment addre of the NM on and mair and reporti on and anal	to develop grade develop as develop de	uidance escribe ped for	e addressed in Part r the faci g requirer n	sing implement of the permit.	of NMP, pro		ation and	d maint	enar
permittee is ne facility, as a guidance sify the docu lementation lity operation ord keeping the collection of the colle	s required to nd record k document to ment addres of the NM on and mair and reportion and anal	to develop graceeping as development of the develop	uidance escribe ped for lowing Yes Yes Yes Yes Yes	e addressed in Part r the faci g requirer	sing implement of II of the permit. lity? Yes ments: No No No No No	of NMP, pro		ation and	d maint	enar
permittee is ne facility, as a guidance stify the docu lementation slity operation ord keeping uple collection	s required to nd record k document to ment addres of the NM on and mair and reportion and anal	to develop graceeping as development of the develop	uidance escribe ped for lowing Yes Yes Yes Yes Yes	e addressed in Part r the faci g requirer	sing implement of II of the permit. lity? Yes ments: No No No No No	of NMP, pro		ation and	d maint	enar

Section E – Land Application Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility? No If no, then provide an explanation of how animal waste at this site are managed. Yes If yes, then the information requested in Section E must be provided.
Photos and/or Maps
Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items:
• Individual field boundaries for all planned land application areas
 A name, number, letter or other means of identifying each individual land application field The location of any down-gradient surface waters
The location of any down-gradient open tile line intake structures
• The location of any down-gradient sinkholes
The location of any down-gradient agricultural well heads
 The location of all conduits to surface waters The specific manure/waste handling or nutrient management restrictions associated with each land application field.
 The soil type(s) present and their locations within the individual land application field(s) The location of buffers and setbacks around state surface waters, well heads, etc.
Land Application Equipment Calibration Describe the type of equipment used to land apply wastes and the calibrating procedures:
Manure Spreader
Manure Sampling and Analysis Procedures A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in letermining application rates for manure, litter, and process wastewater.
Manure Sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9
Other (dim 1)

Soil Sampling and Analysis Procedures	
A representative soil sample from the top 6 inch layer of soil in each fie	ld will be analyzed for phosphorus
content at least once every five years. Analyses will be conducted by a	qualified laboratory using the Olsen D
test. Results will be reported in parts per million (ppm) and will be used	in determining application rates for
manure, litter, and process wastewater.	in determining application rates for
, , , , , , , , , , , , , , , , , , , ,	
Soil sample collection will occur according to the following method:	
The recommended method(s) found in Section 5 of Department Circ	oular DEO 0
· · · · · · · · · · · · · · · · · · ·	
Other (describe) as personal by	Cenex agronomat
v ·	
	· · · · · · · · · · · · · · · · · · ·

Land Application Data

The following must be filled out for each field to which manure, litter or process wastewater will or may be

applied.

Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	165/bu 112.5165/Ac 165/bu 55.8 lbs/Ac
Crop 1 Wheat (DNS) Irrigated (YN) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application Specification Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	165/bu 112.5165/Ac 165/bu 65.8 lbs/Ac 1 (Sept 10th - April 15th) 101
Irrigated (VN) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	165/bu 112.5165/Ac 165/bu 55.8 lbs/Ac 1 (Sept 10th - April 15th) 101
Irrigated (V/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	165/bu 112.5165/Ac 165/bu 55.8 lbs/Ac 1 (Sept 10th - April 15th) 101
N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	165/bu 112.5165/Ac 165/bu 55.8 lbs/Ac 1 (Sept 10th - April 15th) 101
N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	165/bu 112.5165/Ac 165/bu 55.8 lbs/Ac 1 (Sept 10th - April 15th) 101
Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	lbs/bu 55.8 lbs/Ac 1 (Sept 10th - April 15th) id read
Form of manure (liquid/solid) Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	1 (Sept 10th - April 15th) read
Form of manure (liquid/solid) Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	read
Method of Application Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	read
Frequency of Application Crop 2 Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	· · · · · · · · · · · · · · · · · · ·
Irrigated (Y/N) Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	THE
Yield Goal (ton/ac or bushel/ac) N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	
N Content of Harvested Crop (lb/ton or lb/bushel) P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	
P Content of Harvested Crop (lb/ton or lb/bushel) Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	
Time of Year When Application will Occur Form of manure (liquid/solid) Method of Application	
Form of manure (liquid/solid) Method of Application	
Method of Application	
,	
Frequency of Application	
Crop 3	
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of Harvested Crop (lb/ton or lb/bushel)	
P Content of Harvested Crop (lb/ton or lb/bushel)	
Time of Year When Application will Occur	
Form of manure (liquid/solid)	
Method of Application	1
Frequency of Application	

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

M.	Mο	th	ho	1	sed
I٧	' A C'		4 34 4		86.11

Ind	icate which method will be used to determine phosphorus application:
X	Method A – Representative Soil Sample
	Method B – Phosphorus Index

Method A - Representative Soil Sample

- a) Obtain one or more representative soil sample(s) from the field.
- b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).
- c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	AMPANONINA MININA PROBLEM PROB
Olsen P Soil Test Result (ppm)	Application Basis
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

Method B - Phosphorus Index

- a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.
- b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus	
Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High
The state of the s	

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	PORTING A PLANT OF THE PROPERTY OF THE PROPERT
Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

d) The permittee will complete the *Nutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrient 1	Budget Worksheet		
Site/Field.			
	Nutrient Budget	Nitrogen-based Application	Phosphorus-based Application
	Crop Nutrient Needs, lbs/acre included in		
	Department Circular DEQ 9		55.8
(-)	Credits from previous legume crops,		
	lbs/acre (from DEQ-9), as applicable		. 0
(-)	Residuals from past manure production,		
	lbs/acre (lbs/acre applied in previous		
(-)	year(s) x fractions listed in DEQ-9) Nutrients supplied by commercial		
()	fertilizer and Biosolids, lbs/acre		
(-)	Nutrients supplied in irrigation water,		
	lbs/acre		\(\)
	= Additional Nutrients Needed, lbs/acre		
	2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	Total Nitrogen and Phosphorus in manure,		
	lbs/ton or lbs/1,000 gal (from manure test)	54.78	17.63
(+)	Nutrient Avalability factor (for Nitrogen		
	based application see DEQ-9, below; for		1
,	Phosphorus based application use 1.0)		
	= Available Nutrients in Manure,	·	10 10
	lbs/ton or lbs/1,000 gal		18.63
	Additional Nutrients needed, lbs/acre		
	(calculated above)		,
<u>(/)</u>	Available Nutrients in Manure, lbs/ton or		
	lbs/1,000 gal (calculated above)		
	= Manure Application Rate, tons/acre		
	or 1,000 gal/acre	,	,
Comments:			
		•	
-			
***************************************	,		
		,	
,			

Section F - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

ruce

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)

B. Title (Type or Print)

Ouner

D. Signature

Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

C. Phone No.

257-0043

E. Date Signed

8/15/09

RECEIVED

NOV 09 2009

DEQWPB PERMITTING & COMPLIANCE DIV.

INSTRUCTIONS FOR

Form NMP - Nutrient Management Plan Associated With Concentrated Animal Feeding Operations

You may need the following items in order to complete this form: A copy of your most recently submitted Form 2B; a copy of Department Circular DEQ 9, "Montana Technical Standards for Concentrated Animal Feeding Operations;" a copy of soil and manure sample analyses; and a calculator.

Please type or print legibly; forms that are not legible or are not complete will be returned.

SPECIFIC ITEM INSTRUCTIONS

Section A - NMP Status:

Check the box that applies and provide the requested information. If Form NMP has not been previously submitted for this site, check the first box (New). If you submitted a Form NMP and the Department returned it to you as deficient or incomplete, check the second box (Resubmitted); if you were notified by the Department that the permit coverage expired and you are now submitting an updated Form NMP, check the third box (Renewal); if there is a change in the facility or site information (Section H), check the last box (Modification). If a Form NMP has been submitted and returned as incomplete, then the permit number appears in the upper right hand corner of the form. If the site is covered under the General Permit for Concentrated Animal Feeding Operations, the number is given on the Authorization letter sent to you by the Department. The permit number must be included on any correspondence with the Department regarding this site.

Section B - Facility or Site Information:

The information must be stated exactly the same way as it was stated on the most recently submitted version of your Form 2B.

Section C-Applicant (Owner/Operator) Information:

The information must be stated exactly the same way as it was stated on the most recently submitted version of your Form 2B.

Section D - Waste Management Minimum Elements:

Livestock Statistics: Identify each type of animal confined at your facility. The definition of "type" could include animals of a given species, animals of a given weight class (e.g. piglets, sows), or animals housed for a specific purpose (e.g. dry cows, milking cows).

"Number of days on site per year" means the number of days at least one animal of a given type is held in confinement during any 12-month period.

"Annual manure production" means the volume of manure (from a given animal type) that is stored, land applied, or transferred to other persons during any given 12-month period. When describing the method used to calculate annual manure production, include all formulas, factors, references to tables, and other resources used to calculate manure production. Be sure to account for soiled bedding materials and manure-contaminated runoff water, also considered manure under state regulations.

Manure Removal from Confinement Area, list each confinement area at your facility. For example, pens, freestall barns, hog barns, poultry barns, yard back, calving pens, etc.

"Temporary manure storage areas" may include, but are not limited to, structures such as underground tanks and underfloor pits.

List <u>all</u> waste control structures. These may include, but are not limited to, manure lagoons, manure ponds, evaporation ponds, wastewater retention ponds, contaminated runoff retention ponds, settling basins, underground storage tanks, underfloor pits, manure solids stacking pads, composting facilities, and drystack facilities. Berms, dikes, concrete curbs, ditches, and waste transfer pipelines are also waste control structures and must be listed, though some of the requested measurements may not apply (e.g. "volume" usually does not apply to a waste transfer pipeline).

Disposal of Dead Animals, please be as specific as possible with the information that you provide. For example, if dead animals are disposed of by burial, the method/practice description should include the fact that they are buried, how quickly after death they are hauled to the burial site, and how quickly they are covered with soil. The method/practice location information should be detailed enough that an inspector could find the site without the need for additional guidance. It may not simply reference a map.

Clean Water Diversion Practices, the practice description does not need to be any more detailed than "berm," "ditch," "grassy swale," etc. The practice location may not simply reference a map.

Prohibiting Animals & Wastes from Contact with State Waters, the practice description does not need to be any more detailed than "fence," "wall," etc. The practice location may not simply reference a map.

Chemicals and Contaminants, list all major chemicals or other contaminants handled on site as part of your CAFO operation. These would include, but are not be limited to, pesticides, herbicides, animal dips, disinfectants, etc. Specify the method of disposal for each chemical/contaminant.

Describe Best Management Practices (BMPs) used to control runoff of pollutants from the production area, and land application area. Please note that "production area" means that part of a CAFO that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. The "animal confinement area" includes but is not limited to open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milkrooms, milking centers, cowyards, barnyards, medication pens, walkers, animal walkways, and stables. The "manure storage area" includes but is not limited to lagoons, runoff ponds, storage sheds, stockpiles, under house or pit storages, liquid impoundments, static piles, and composting piles. The "raw materials storage area" includes but is not limited to feed silos, silage bunkers, and bedding materials. The "waste containment area" includes but is not limited to settling basins, and areas within berms and diversions which separate uncontaminated storm water. Also included in the definition of production area is any egg washing or egg processing facility, and any area used in the storage, handling, treatment, or disposal of mortalities.

If you transfer all of the wastes your CAFO produces, and do not land apply any of it to ground under your operational control, then you will not have any land application area BMPs to describe.

Section E - Land Application:

If all of the manure produced at your facility will be transferred to other persons for use in areas beyond your operational control, then you do not need to provide the information requested in Section E of this form.

Photos and/or Maps:

Manure/waste handling and nutrient management restrictions that must be on the photo/map include buffers and setbacks around state surface waters, well heads, etc.

Nutrient Management and Waste Utilization via Land Application:

The purpose for having two options is to allow you to make use of the valuable technical assistance provided by the USDA's Natural Resources Conservation Service (NRCS), if you should so desire.

Requirements: Land application equipment calibration is essential to ensuring that nutrients are being applied at agronomic rates. Section 5 of Department Circular DEQ 9 contains sample instructions on how to calibrate some types of land application equipment. The instructions in Section 5 of Department Circular DEQ 9 are purely recommendations, other methods may work just as well. When sending manure or soil samples to a laboratory for analysis, it is your responsibility to make sure that the lab uses the correct sampling procedures. You should never just "assume" that they will. It is also your responsibility to make sure that the results of the analysis are reported using the appropriate units of measurement. Before you take any samples, talk to the lab that you intend to use. Ask them if they have specific instructions on how to obtain and submit samples. If they do, then you must follow their instructions in order to help ensure that the analysis results you get are as accurate as possible.

You will most likely need to make and fill out multiple photocopies of "Table 4 – Crops and Manure" For information on how to fill out specific sections of Table 6 – Phosphorus Index, please refer to Attachment 2 of Department Circular DEQ 9.

"Table 9 – Nutrient Budget Worksheet" must be filled out for each crop grown on each field to which manure or process wastewater will or may be applied, regardless of whether Method A has been used or Method B has been used. When filling out Table 9, be sure and refer to nitrogen in terms of pounds of elemental nitrogen. Phosphorus should be referred to in pounds of P_2O_5 .

Section F - Certification:

If Form NMP is filled out by one person and signed by another, the person signing the document should read it thoroughly. Always retain a copy of each of the documents that you send to the Department.

If you have any questions concerning how to fill out this form, or other forms related to the Montana Pollutant Discharge Elimination System (MPDES) discharge permitting program, please contact the Department's Water Protection Bureau at:

Phone: (406) 444-3080 Fax: (406) 444-1374 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901 Appendix A: Phosphorus Index Worksheet (Complete for each field or crop)

Site Category Factor	None (0)	Low (1)	Medium (2)	High (4)	Very High (8)	Risk, Value (0, 1, 2, 4, 8)	Weight Factor	Weighted Risk
Soil Erosion	N/A	<5 tons/ac/yr	5-10 ton/ac/yr	10-15 tons/ac/yr	>15 tons/ac/yr		X 1.5	
Furrow Irrigation Erosion	N/A	Tailwater recovery, QS>6 very erodible soils, or QS>10 other soils	QS>10 for erosion resistant soils	QS>10 for erodible soils	QA>6 for very erodible soils		X 1.5	
Sprinkler Irrigation Erosion	All sites 0-3% slope, all sandy sites, or site evaluation indicates little or no runoff, large spray on silts 3-8%	Medium spray on silty soils 3-15% slopes, large spray on silty soils 8-15% slope, low spray on silt soils 3-8%, large spray on clay soil 3-15% slope	Medium spray on clay soils 3- 8% slopes, large spray on clay soils >15% slope, medium spray on silt soil >15% slope	Medium spray on clay soils >8% slope, low spray on clay soil 3-8% slope, low spray on silty soils >15% slopes	Low spray on clay soils >8% slopes		X 0.5	
Runoff Class	Negligible	Very Low or Low	Medium	High	Very High		X 0.5	
Olson Soil Test P	T 4 5 6 6 7 7 7 7	<20 ppm	20-40 ppm	40-80 ppm	>80 ppm	·	X 1.0	
Commercia I P Fertilizer Application Method	None Applied	Placed with planter or injected deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during the growing season	Incorporated >3 months before crop or surface applied <3 months before crop emerges	Surface applied >3 months before crop emerges		X 1.0	
Commercia I P Fertilizer Application Rate	None Applied	<30 lbs/ac P2O5	31-90 lbs/ac P2O5	91-150 lbs/ac P2O5	>150 lbs/ac P2O5		X 1.0	
Organic P Source Application Method	None Applied	Injected deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during growing season.	Incorporated >3 months before crop or surface applied <3 months before crop.	Surface applied to pasture or >3 months before crop emerges.		X 1.0	
Organic P Application Rate	None Applied	<30 lbs/ac P2O5	31-90 lbs/ac P2O5	91-150 lbs/ac P2O5	>150 lbs/ac P2O5		X 1.0	
Distance to Concentrat ed Surface Water Flow	>1,000 feet	200-1,000 feet, or functioning grass waterways in concentrated surface water	100-200 feet	<100 feet	0 feet or applications are directly into concentrated surface water flow areas.		X 1.0	

Bruce Tutvedt 2335 West Valley Dr. Kalispell, MT 59901



North West Labs

A division of Cooperative Resources International

MANURE ANALYSIS REPORT

Feed Code:	BASIC TEST PLUS	Date: 1/30/09 Lab No.: 47
Customer No.	B70	Date Received: 1/23/09

Name: M

MARKUS BRAATEN

Address:

CENEX HARVEST STATES

150 1st AVE W N KALISPELL, MT 59901 RECEIVED

NOV 09 2009

DEQWPB PERMITTING & COMPLIANCE DIV.

Sample ID: LIQUID MANURE Sample Desc: B. TUTVEDT

Dry Matter % 17.50 Total In 1st Year If applied 2 If Applied 3 Moisture % 82.50 **Nutrients** of Application Consecutive Yrs Consecutive Yrs lbs / ton lbs/ton lbs/ton lbs/ton Nitrogen (Injected) 54.78 21.91 27.39 30.13 Nitrogen (surface applied) 54.78 16.43 21.91 24.65 Phosphorus as P₂O₅ 17.63 10.58 12.34 13.22 Potassium as K₂O 24.92 19.94 22.43 23.68 Sulfur 3.92 2.35 2.75 2.94 Estimated Value of Avaliable Nutrients \$38.80 \$46.43 \$50.24

Calcium:	1.17	%	Zinc:	208	mag	
Magnesium:	0.38	%			1 1	
1 7	0.30	70	Manganese:	157	ppm	1
Copper:	44	ppm	Sodium:	0.22	%	
Iron		, ,	o o a raini	0.22	70	
Iron:	247	ppm				

Applications for manure on the same field for 2 consecutive years increases availability of N, P, K, and S by 10%, and for 3 or more consecutive years by 15%. Availability of N changes depending on application technique. Injection or incorporation within 3 days of application results in higher N availability.

Major elements are reported on a 'as received' basis.

If minor elements are requested, they are reported on a 'dry matter' basis. If ammonium, nitrate or pH are requested, they are reported on an 'as is' basis.

Signed	

THANKS FOR YOUR BUSINESS

RI North West Labs accepts no responsibility nor makes any claims or inferences as to the origin of the sample or sampling technique, unless certified by our lab.

Report Number: C06338-077

Account Number: 00468

A & L Canada Laboratories

2136 Jetstream Rd, London, Ontario, N5V 3P5 Telephone: (519) 457-2575 Fax: (519)457-2664

15990341

To: AGRI-TREND AGROLOGY **BOX 1951**

KALISPELL MONTANA, AB 59903

Attn: MARKUS BRAATEN

Report Date: 12/6/2006

For: BRUCE TUTVEDT

Grower Code: 6725

Field: STILL PIVOT

SOIL TEST REPORT

Page: 1

35	i	•	0.10														
24	12		0.15	515	9		0.2		0./ 1.1		 	<u>.</u>	ĭ	:	24	<u>~</u>	,
Na ppm	, mon	mdd	Ratio	Al ppm	%		HITIMOS/C	200				7.7	73	47	17	10	*
- 1	Chlgride	NH4N	Aluminum K/Mg	Juminum	Saturation A		Soluble Salts	Molybdenum Mo. nom	on Mc	er Boron B ppm	Copper Cu ppm	Fe ppm	Mn ppm Fe ppm	Zn ppm	Nitrogen ppm	ppm	Imber
														Zino	Nitrate	Sulfiur	mple
0.9		85.9	12.0	1.2	6.3			0000	0								,
0.7		16.4 80.5	16.4	2.4			7.4	2250	235	74	Ċ.		2.5	12 23361	12		ω
% Na	а %н	g %Ca	% Mg	% X	meq/100g	Buffer	PΗ	Ca ppm	vg ppm	1 mgg	,	33	"	23360	<u></u>		حد
ons	e Saturation	Percent Base Saturations	P		CEC	P		Calcium	3gnesium	tassiumMa	rav ppm Pc	Ricarh B	Matter Ricarb Bray P1 / PotassiumMagnesium	٦.	scrpt: Depth	Legal Land Descrpt:	ımber
											7) rappio	ah	•		ample

nple
Crop
Yield Goal
Lime Tons/Acre
SOIL FE
N P205 K20 Mg
K20
Mg
Ca
Ø
Zn
Mn
Fe
Cu

 ϖ

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.

Recs are based on building nutrients to a level to maintain soil health. Banding and/or precision placement techniques can be utilized to increase fertilizer efficiency. If this report contains soil in excess of 7500 ppm Ca it may or may not effect the calculated Cation Exchange Capacity. Excessive seed placed fertilizer can cause injury.

Account Number: 00468 Report Number: C06303-280

A & L Canada Laboratories

2136 Jetstream Rd, London, Ontario, N5V 3P5 Telephone: (519) 457-2575 Fax: (519)457-2664

!599034!

To: AGRI-TREND AGROLOGY

BOX 1951

KALISPELL MONTANA, AB 59903

For: BRUCE TUTVEDT

Grower Code: 6727

Attn: MARKUS BRAATEN

Report Date: 11/1/2006

Field: CHURCH PIVOT

SOIL TEST REPORT

Page:

27 32	16		0.20 0.19	661	10		0.4	1.0	1.3	1.8	54		80	5.6	5 4	121	18 A
Sodium Na ppm	Chlgride ppm	NH4N ppm	l l	Aluminum K/Mg Al ppm Ratio	Saturation A P %	1	Soluble Salts mmho/cn	Molybdenum Mo ppm	1	Copper Cu ppm		n Fe ppm	N M a	Zinc Zn ppm	Nitrate Nitrogen ppm		Sample Number
0.9	4.8	75.3	16.1	3.0	15.8		7.2	2380	305	182			3.6	4136	12	5727	
0.7		66.4	19.9	4.0	17.4		7.1	2310	415	271	53	34	5.4	4135	တ	6727	iA
% Na	% H	% Ca	% Mg	% X	3	Buffer	P	Ca ppm	Mg ppm	Bray-P1 K ppm Mg ppm	Bray-P1	Bicarb	l	Number	Depth	regai railu bescipi.	Number
S	Percent Base Saturations	rcent Base	Per		CEC	Ħ		_n Calcium	nMagnesium	Phosphorus - P ppm PotassiumMagnesium	'us - P ppr	Phosphor	Organic	Lab	•	l paral Land Docor	Sample

SOIL FERTILITY GUIDELINES (Ibs/ac)

Sample Number
Crop
ŏ
Yield Goal
Goal
Lime Tons/Acre
cre
z
P20.
P205 K20
K20
Mg
Ca
ໝ
S
Zn
Mn
Fe
Cu
В

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.

Recs are based on building nutrients to a level to maintain soil health. Banding and/or precision placement techniques can be utilized to increase fertilizer efficiency. If this report contains soil in excess of 7500 ppm Ca it may or may not effect the calculated Cation Exchange Capacity. Excessive seed placed fertilizer can cause injury.





Montana Flathead County

2009

Farm

Tract

6382

1038

Legend

- Restricted Use
- ▼ Limited Restrictions
- Exempt from Conservation Compliance Provisions

CLU Field Boundary



Non Ag Use

Feb 06, 2009

USDAFSA maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership, rather it depicts the information provided directly from the producer and/or the 2005 ortho rectified imagery for Montana. The producer accepts the data "as is' and assumes all risks associated with its use. The USDAFarm Service Agency assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside of FSA Programs.

1:8,500 Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact we thank boundaries and determinations, or contact NRCS.